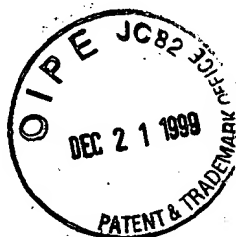


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<110> O'Brien, Timothy J.  
 <120> TADG-15: An Extracellular Serine Protease  
 Overexpressed in Carcinomas  
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 <140> US 09/421,213  
 <141> 10-20-1999  
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Gly	Leu	Glu	Glu	Gly	Val	Glu	Phe	Leu	Pro	Val	Asn	Asn	Val	Lys
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Lys	Val	Glu	Lys	His	Gly	Pro	Gly	Arg	Trp	Val	Val	Leu	Ala	Ala
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Val	Leu	Ile	Gly	Leu	Leu	Leu	Val	Leu	Leu	Gly	Ile	Gly	Phe	Leu
			65					70						75

Val	Trp	His	Leu	Gln	Tyr	Arg	Asp	Val	Arg	Val	Gln	Lys	Val	Phe
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Asn	Gly	Tyr	Met	Arg	Ile	Thr	Asn	Glu	Asn	Phe	Val	Asp	Ala	Tyr
				95					100					105
Glu	Asn	Ser	Asn	Ser	Thr	Glu	Phe	Val	Ser	Leu	Ala	Ser	Lys	Val
				110					115					120
Lys	Asp	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	Phe	Leu	Gly
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Pro	Tyr	His	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	Gly	Ser
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Val	Ile	Ala	Tyr	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	Leu
				155					160					165
Val	Glu	Glu	Ala	Glu	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met
				170					175					180
Leu	Pro	Pro	Arg	Ala	Arg	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser
				185					190					195
Val	Val	Ala	Phe	Pro	Thr	Asp	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln
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Asp	Asn	Ser	Cys	Ser	Phe	Gly	Leu	His	Ala	Arg	Gly	Val	Glu	Leu
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Met	Arg	Phe	Thr	Thr	Pro	Gly	Phe	Pro	Asp	Ser	Pro	Tyr	Pro	Ala
				230					235					240
His	Ala	Arg	Cys	Gln	Trp	Ala	Leu	Arg	Gly	Asp	Ala	Asp	Ser	Val
				245					250					255
Leu	Ser	Leu	Thr	Phe	Arg	Ser	Phe	Asp	Leu	Ala	Ser	Cys	Asp	Glu
				260					265					270
Arg	Gly	Ser	Asp	Leu	Val	Thr	Val	Tyr	Asn	Thr	Leu	Ser	Pro	Met
				275					280					285
Glu	Pro	His	Ala	Leu	Val	Gln	Leu	Cys	Gly	Thr	Tyr	Pro	Pro	Ser
				290					295					300
Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser	Gln	Asn	Val	Leu	Leu	Ile	Thr
				305					310					315
Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His	Pro	Gly	Phe	Glu	Ala	Thr
				320					325					330
Phe	Phe	Gln	Leu	Pro	Arg	Met	Ser	Ser	Cys	Gly	Gly	Arg	Leu	Arg
				335					340					345
Lys	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr	Pro	Gly	His	Tyr
				350					355					360
Pro	Pro	Asn	Ile	Asp	Cys	Thr	Trp	Asn	Ile	Glu	Val	Pro	Asn	Asn
				365					370					375
Gln	His	Val	Lys	Val	Ser	Phe	Lys	Phe	Phe	Tyr	Leu	Leu	Glu	Pro
				380					385					390
Gly	Val	Pro	Ala	Gly	Thr	Cys	Pro	Lys	Asp	Tyr	Val	Glu	Ile	Asn
				395					400					405
Gly	Glu	Lys	Tyr	Cys	Gly	Glu	Arg	Ser	Gln	Phe	Val	Val	Thr	Ser
				410					415					420
Asn	Ser	Asn	Lys	Ile	Thr	Val	Arg	Phe	His	Ser	Asp	Gln	Ser	Tyr
				425					430					435
Thr	Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp	Ser	Ser
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				455					460					465

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A1  
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 Ser Asp Glu Leu Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr  
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 Cys Lys Asn Lys Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser  
 500 505 510  
 Val Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Gly Cys Ser Cys  
 515 520 525  
 Pro Ala Gln Thr Phe Arg Cys Ser Asn Gly Lys Cys Leu Ser Lys  
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 Ser Gln Gln Cys Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser Asp  
 545 550 555  
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 Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly Ser Asp Glu Lys  
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 Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln Ala Arg Val  
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 Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp Gln Val  
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 Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser Leu  
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 Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe  
 665 670 675  
 Leu Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln  
 680 685 690  
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 Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro  
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 Ser His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp  
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 Gly His Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys  
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 Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asn Leu Leu  
 770 775 780  
 Pro Gln Gln Ile Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser  
 785 790 795  
 Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser  
 800 805 810  
 Ser Val Glu Ala Asp Gly Arg Ile Phe Gln Ala Gly Val Val Ser  
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 <213> *Homo sapiens*  
 <220>  
 <223> Hepsin  
 <400> 3

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 Gln Val Ser Leu Arg Tyr Asp Gly Ala His Leu Cys Gly Gly Ser  
 20 25 30  
 Leu Leu Ser Gly Asp Trp Val Leu Thr Ala Ala His Cys Phe Pro  
 35 40 45  
 Glu Arg Asn Arg Val Leu Ser Arg Trp Arg Val Phe Ala Gly Ala  
 50 55 60  
 Val Ala Gln Ala Ser Pro His Gly Leu Gln Leu Gly Val Gln Ala  
 65 70 75  
 Val Val Tyr His Gly Gly Tyr Leu Pro Phe Arg Asp Pro Asn Ser  
 80 85 90  
 Glu Glu Asn Ser Asn Asp Ile Ala Leu Val His Leu Ser Ser Pro  
 95 100 105  
 Leu Pro Leu Thr Glu Tyr Ile Gln Pro Val Cys Leu Pro Ala Ala  
 110 115 120  
 Gly Gln Ala Leu Val Asp Gly Lys Ile Cys Thr Val Thr Gly Trp  
 125 130 135  
 Gly Asn Thr Gln Tyr Tyr Gly Gln Gln Ala Gly Val Leu Gln Glu  
 140 145 150  
 Ala Arg Val Pro Ile Ile Ser Asn Asp Val Cys Asn Gly Ala Asp  
 155 160 165  
 Phe Tyr Gly Asn Gln Ile Lys Pro Lys Met Phe Cys Ala Gly Tyr  
 170 175 180  
 Pro Glu Gly Gly Ile Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro  
 185 190 195  
 Phe Val Cys Glu Asp Ser Ile Ser Arg Thr Pro Arg Trp Arg Leu  
 200 205 210  
 Cys Gly Ile Val Ser Trp Gly Thr Gly Cys Ala Leu Ala Gln Lys  
 215 220 225  
 Pro Gly Val Tyr Thr Lys Val Ser Asp Phe Arg Glu Trp Ile Phe  
 230 235 240  
 Gln Ala Ile Lys Thr His Ser Glu Ala Ser Gly Met Val Thr Gln  
 245 250 255  
 Leu

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 <212> PRT

<213> Homo sapiens

<220>

<223> SCCE

<400> 4

Lys Ile Ile Asp Gly Ala Pro Cys Ala Arg Gly Ser His Pro Trp  
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Gln Val Ala Leu Leu Ser Gly Asn Gln Leu His Cys Gly Gly Val  
20 25 30  
Leu Val Asn Glu Arg Trp Val Leu Thr Ala Ala His Cys Lys Met  
35 40 45  
Asn Glu Tyr Thr Val His Leu Gly Ser Asp Thr Leu Gly Asp Arg  
50 55 60  
Arg Ala Gln Arg Ile Lys Ala Ser Lys Ser Phe Arg His Pro Gly  
65 70 75  
Tyr Ser Thr Gln Thr His Val Asn Asp Leu Met Leu Val Lys Leu  
80 85 90  
Asn Ser Gln Ala Arg Leu Ser Ser Met Val Lys Lys Val Arg Leu  
95 100 105  
Pro Ser Arg Cys Glu Pro Pro Gly Thr Thr Cys Thr Val Ser Gly  
110 115 120  
Trp Gly Thr Thr Thr Ser Pro Asp Val Thr Phe Pro Ser Asp Leu  
125 130 135  
Met Cys Val Asp Val Lys Leu Ile Ser Pro Gln Asp Cys Thr Lys  
140 145 150  
Val Tyr Lys Asp Leu Leu Glu Asn Ser Met Leu Cys Ala Gly Ile  
155 160 165  
Pro Asp Ser Lys Lys Asn Ala Cys Asn Gly Asp Ser Gly Gly Pro  
170 175 180  
Leu Val Cys Arg Gly Thr Leu Gln Gly Leu Val Ser Trp Gly Thr  
185 190 195  
Phe Pro Cys Gly Gln Pro Asn Asp Pro Gly Val Tyr Thr Gln Val  
200 205 210  
Cys Lys Phe Thr Lys Trp Ile Asn Asp Thr Met Lys Lys His Arg  
215 220 225

<210> 5

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<223> Trypsin

<400> 5

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Gln Val Ser Leu Asn Ser Gly Tyr His Phe Cys Gly Gly Ser Leu  
20 25 30

Ile Asn Glu Gln Trp Val Val Ser Ala Gly His Cys Tyr Lys Ser  
 35 40 45  
 Arg Ile Gln Val Arg Leu Gly Glu His Asn Ile Glu Val Leu Glu  
 50 55 60  
 Gly Asn Glu Gln Phe Ile Asn Ala Ala Lys Ile Ile Arg His Pro  
 65 70 75  
 Gln Tyr Asp Arg Lys Thr Leu Asn Asn Asp Ile Met Leu Ile Lys  
 80 85 90  
 Leu Ser Ser Arg Ala Val Ile Asn Ala Arg Val Ser Thr Ile Ser  
 95 100 105  
 Leu Pro Thr Ala Pro Pro Ala Thr Gly Thr Lys Cys Leu Ile Ser  
 110 115 120  
 Gly Trp Gly Asn Thr Ala Ser Ser Gly Ala Asp Tyr Pro Asp Glu  
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 140 145 150  
 Ala Ser Tyr Pro Gly Lys Ile Thr Ser Asn Met Phe Cys Val Gly  
 155 160 165  
 Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly  
 170 175 180  
 Pro Val Val Cys Asn Gly Gln Leu Gln Gly Val Val Ser Trp Gly  
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 Tyr Asn Tyr Val Lys Trp Ile Lys Asn Thr Ile Ala Ala Asn Ser  
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<211> 231

<212> PRT

<213> *Homo sapiens*

<220>

<223> Chymotrypsin

<400> 6

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 Gln Val Ser Leu Gln Asp Lys Thr Gly Phe His Phe Cys Gly Gly  
 20 25 30  
 Ser Leu Ile Ser Glu Asp Trp Val Val Thr Ala Ala His Cys Gly  
 35 40 45  
 Val Arg Thr Ser Asp Val Val Val Ala Gly Glu Phe Asp Gln Gly  
 50 55 60  
 Ser Asp Glu Glu Asn Ile Gln Val Leu Lys Ile Ala Lys Val Phe  
 65 70 75  
 Lys Asn Pro Lys Phe Ser Ile Leu Thr Val Asn Asn Asp Ile Thr  
 80 85 90  
 Leu Leu Lys Leu Ala Thr Pro Ala Arg Phe Ser Gln Thr Val Ser  
 95 100 105

Ala	Val	Cys	Leu	Pro	Ser	Ala	Asp	Asp	Asp	Phe	Pro	Ala	Gly	Thr
				110					115					120
Leu	Cys	Ala	Thr	Thr	Gly	Trp	Gly	Lys	Thr	Lys	Tyr	Asn	Ala	Asn
				125					130					135
Lys	Thr	Pro	Asp	Lys	Leu	Gln	Gln	Ala	Ala	Leu	Pro	Leu	Leu	Ser
				140					145					150
Asn	Ala	Glu	Cys	Lys	Lys	Ser	Trp	Gly	Arg	Arg	Ile	Thr	Asp	Val
				155					160					165
Met	Ile	Cys	Ala	Gly	Ala	Ser	Gly	Val	Ser	Ser	Cys	Met	Gly	Asp
				170					175					180
Ser	Gly	Gly	Pro	Leu	Val	Cys	Gln	Lys	Asp	Gly	Ala	Trp	Thr	Leu
				185					190					195
Val	Gly	Ile	Val	Ser	Trp	Gly	Ser	Asp	Thr	Cys	Ser	Thr	Ser	Ser
				200					205					210
Pro	Gly	Val	Tyr	Ala	Arg	Val	Thr	Lys	Leu	Ile	Pro	Trp	Val	Gln
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Lys	Ile	Leu	Ala	Ala	Asn									
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<210> 7

<211> 255

<212> PRT

<213> *Homo sapiens*

<220>

<223> Factor 7

<400> 7

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Gln	Val	Leu	Leu	Leu	Val	Asn	Gly	Ala	Gln	Leu	Cys	Gly	Gly	Thr
				20					25					30
Leu	Ile	Asn	Thr	Ile	Trp	Val	Val	Ser	Ala	Ala	His	Cys	Phe	Asp
				35					40					45
Lys	Ile	Lys	Asn	Trp	Arg	Asn	Leu	Ile	Ala	Val	Leu	Gly	Glu	His
				50					55					60
Asp	Leu	Ser	Glu	His	Asp	Gly	Asp	Glu	Gln	Ser	Arg	Arg	Val	Ala
				65					70					75
Gln	Val	Ile	Ile	Pro	Ser	Thr	Tyr	Val	Pro	Gly	Thr	Thr	Asn	His
				80					85					90
Asp	Ile	Ala	Leu	Leu	Arg	Leu	His	Gln	Pro	Val	Val	Leu	Thr	Asp
				95					100					105
His	Val	Val	Pro	Leu	Cys	Leu	Pro	Glu	Arg	Thr	Phe	Ser	Glu	Arg
				110					115					120
Thr	Leu	Ala	Phe	Val	Arg	Phe	Ser	Leu	Val	Ser	Gly	Trp	Gly	Gln
				125					130					135
Leu	Leu	Asp	Arg	Gly	Ala	Thr	Ala	Leu	Glu	Leu	Met	Val	Leu	Asn
				140					145					150
Val	Pro	Arg	Leu	Met	Thr	Gln	Asp	Cys	Leu	Gln	Gln	Ser	Arg	Lys
				155					160					165



Val	Gly	Asp	Ser	Pro	Asn	Ile	Thr	Glu	Tyr	Met	Phe	Cys	Ala	Gly	
				170					175					180	
Tyr	Ser	Asp	Gly	Ser	Lys	Asp	Ser	Cys	Lys	Gly	Asp	Ser	Gly	Gly	
				185					190					195	
Pro	His	Ala	Thr	His	Tyr	Arg	Gly	Thr	Trp	Tyr	Leu	Thr	Gly	Ile	
				200					205					210	
Val	Ser	Trp	Gly	Gln	Gly	Cys	Ala	Thr	Val	Gly	His	Phe	Gly	Val	
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Tyr	Thr	Arg	Val	Ser	Gln	Tyr	Ile	Glu	Trp	Leu	Gln	Lys	Leu	Met	
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Arg	Ser	Glu	Pro	Arg	Pro	Gly	Val	Leu	Leu	Arg	Ala	Pro	Phe	Pro	
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<210> 8

<211> 253

<212> PRT

<213> *Homo sapiens*

<220>

<223> Tissue plasminogen activator

<400> 8

Arg	Ile	Lys	Gly	Gly	Leu	Phe	Ala	Asp	Ile	Ala	Ser	His	Pro	Trp	
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Gln	Ala	Ala	Ile	Phe	Ala	Lys	His	Arg	Arg	Ser	Pro	Gly	Glu	Arg	
				20					25					30	
Phe	Leu	Cys	Gly	Gly	Ile	Leu	Ile	Ser	Ser	Cys	Trp	Ile	Leu	Ser	
				35					40					45	
Ala	Ala	His	Cys	Phe	Gln	Glu	Arg	Phe	Pro	Pro	His	His	Leu	Thr	
				50					55					60	
Val	Ile	Leu	Gly	Arg	Thr	Tyr	Arg	Val	Val	Pro	Gly	Glu	Glu	Glu	
				65					70					75	
Gln	Lys	Phe	Glu	Val	Glu	Lys	Tyr	Ile	Val	His	Lys	Glu	Phe	Asp	
				80					85					90	
Asp	Asp	Thr	Tyr	Asp	Asn	Asp	Ile	Ala	Leu	Leu	Gln	Leu	Lys	Ser	
				95					100					105	
Asp	Ser	Ser	Arg	Cys	Ala	Gln	Glu	Ser	Ser	Val	Val	Arg	Thr	Val	
				110					115					120	
Cys	Leu	Pro	Pro	Ala	Asp	Leu	Gln	Leu	Pro	Asp	Trp	Thr	Glu	Cys	
				125					130					135	
Glu	Leu	Ser	Gly	Tyr	Gly	Lys	His	Glu	Ala	Leu	Ser	Pro	Phe	Tyr	
				140					145					150	
Ser	Glu	Arg	Leu	Lys	Glu	Ala	His	Val	Arg	Leu	Tyr	Pro	Ser	Ser	
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Arg	Cys	Thr	Ser	Gln	His	Leu	Leu	Asn	Arg	Thr	Val	Thr	Asp	Asn	
				170					175					180	
Met	Leu	Cys	Ala	Gly	Asp	Thr	Arg	Ser	Gly	Gly	Pro	Gln	Ala	Asn	
				185					190					195	
Leu	His	Asp	Ala	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	
				200					205					210	

Leu Asn Asp Gly Arg Met Thr Leu Val Gly Ile Ile Ser Trp Gly  
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<212> PRT

<213> *Mus musculus*

<220>

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<400> 10

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 35 40 45  
 Lys Val Glu Lys Arg Gly Pro Arg Arg Trp Val Val Leu Val Ala  
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 Val Leu Phe Ser Phe Leu Leu Leu Ser Leu Met Ala Gly Leu Leu  
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 Val Trp His Phe His Tyr Arg Asn Val Arg Val Gln Lys Val Phe  
 80 85 90  
 Asn Gly His Leu Arg Ile Thr Asn Glu Ile Phe Leu Asp Ala Tyr  
 95 100 105  
 Glu Asn Ser Thr Ser Thr Glu Phe Ile Ser Leu Ala Ser Gln Val  
 110 115 120  
 Lys Glu Ala Leu Lys Leu Leu Tyr Asn Glu Val Pro Val Leu Gly  
 125 130 135  
 Pro Tyr His Lys Lys Ser Ala Val Thr Ala Phe Ser Glu Gly Ser  
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 Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser Ile Pro Pro His Leu  
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 Ala Glu Glu Val Asp Arg Ala Met Ala Val Glu Arg Val Val Thr  
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Val	Val	Ala	Phe	Pro	Ile	Asp	Pro	Arg	Met	Leu	Gln	Arg	Thr	Gln
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Asp	Asn	Ser	Cys	Ser	Phe	Ala	Leu	His	Ala	His	Gly	Ala	Ala	Val
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Thr	Arg	Phe	Thr	Thr	Pro	Gly	Phe	Pro	Asn	Ser	Pro	Tyr	Pro	Ala
				230					235					240
His	Ala	Arg	Cys	Gln	Trp	Val	Leu	Arg	Gly	Asp	Ala	Asp	Ser	Val
				245					250					255
Leu	Ser	Leu	Thr	Phe	Arg	Ser	Phe	Asp	Val	Ala	Pro	Cys	Asp	Glu
				260					265					270
His	Gly	Ser	Asp	Leu	Val	Thr	Val	Tyr	Asp	Ser	Leu	Ser	Pro	Met
				275					280					285
Glu	Pro	His	Ala	Val	Val	Arg	Leu	Cys	Gly	Thr	Phe	Ser	Pro	Ser
				290					295					300
Tyr	Asn	Leu	Thr	Phe	Leu	Ser	Ser	Gln	Asn	Val	Phe	Leu	Val	Thr
				305					310					315
Leu	Ile	Thr	Asn	Thr	Gly	Arg	Arg	His	Leu	Gly	Phe	Glu	Ala	Thr
				320					325					330
Phe	Phe	Gln	Leu	Pro	Lys	Met	Ser	Ser	Cys	Gly	Gly	Val	Leu	Ser
				335					340					345
Asp	Thr	Gln	Gly	Thr	Phe	Ser	Ser	Pro	Tyr	Tyr	Pro	Gly	His	Tyr
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				395					400					405
Gly	Glu	Lys	Gly	Ser	Gly	Glu	Arg	Ser	Gln	Phe	Val	Val	Ser	Ser
				410					415					420
Asn	Ser	Ser	Lys	Ile	Thr	Val	His	Phe	His	Ser	Asp	His	Ser	Tyr
				425					430					435
Thr	Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp	Ser	Asn
				440					445					450
Asp	Pro	Cys	Pro	Gly	Met	Phe	Met	Cys	Lys	Thr	Gly	Arg	Cys	Ile
				455					460					465
Arg	Lys	Glu	Leu	Arg	Cys	Asp	Gly	Trp	Ala	Asp	Cys	Pro	Asp	Tyr
				470					475					480
Ser	Asp	Glu	Arg	Tyr	Cys	Arg	Cys	Asn	Ala	Thr	His	Gln	Phe	Thr
				485					490					495
Cys	Lys	Asn	Gln	Phe	Cys	Lys	Pro	Leu	Phe	Trp	Val	Cys	Asp	Ser
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				515					520					525
Pro	Ala	Gly	Ser	Phe	Lys	Cys	Ser	Asn	Gly	Lys	Cys	Leu	Pro	Gln
				530					535					540
Ser	Gln	Lys	Cys	Asn	Gly	Lys	Asp	Asn	Cys	Gly	Asp	Gly	Ser	Asp
				545					550					555
Glu	Ala	Ser	Cys	Asp	Ser	Val	Asn	Val	Val	Ser	Cys	Thr	Lys	Tyr
				560					565					570

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 575 580 585  
 Glu Cys Asp Gly Lys Thr Asp Cys Ser Asp Gly Ser Asp Glu Lys  
 590 595 600  
 Asn Cys Asp Cys Gly Leu Arg Ser Phe Thr Lys Gln Ala Arg Val  
 605 610 615  
 Val Gly Gly Thr Asn Ala Asp Glu Gly Glu Trp Pro Trp Gln Val  
 620 625 630  
 Ser Leu His Ala Leu Gly Gln Gly His Leu Cys Gly Ala Ser Leu  
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 650 655 660  
 Asp Lys Asn Phe Lys Tyr Ser Asp Tyr Thr Met Trp Thr Ala Phe  
 665 670 675  
 Leu Gly Leu Leu Asp Gln Ser Lys Arg Ser Ala Ser Gly Val Gln  
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 Glu Leu Lys Leu Lys Arg Ile Ile Thr His Pro Ser Phe Asn Asp  
 695 700 705  
 Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Ser  
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 Val Glu Tyr Ser Thr Val Val Arg Pro Ile Cys Leu Pro Asp Ala  
 725 730 735  
 Thr His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp  
 740 745 750  
 Gly His Thr Lys Glu Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys  
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 Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asp Leu Met  
 770 775 780  
 Pro Gln Gln Ile Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser  
 785 790 795  
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 Ser Ala Glu Lys Asp Gly Arg Met Phe Gln Ala Gly Val Val Ser  
 815 820 825  
 Trp Gly Glu Gly Cys Ala Gln Arg Asn Lys Pro Gly Val Tyr Thr  
 830 835 840  
 Arg Leu Pro Cys Ser Ser Gly Leu Asp Gln Arg Ala His Trp Gly  
 845 850 855  
 Ile Ala Ala Trp Thr Asp Ser Arg Pro Gln Thr Pro Thr Gly Met  
 860 865 870  
 Pro Asp Met His Thr Trp Ile Gln Glu Arg Asn Thr Asp Asp Ile  
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23

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~~<222> 3, 6, 9, 12, 18~~

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20

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~~<213> *Homo sapiens*~~

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~~<400> 13~~

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~~10~~

~~<210> 14~~

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<400> 14

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20

<210> 15

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<212> DNA

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<220>

<223> TADG-15 reverse oligonucleotide primer

<400> 15

gaaggtgaag tcattgaaga

20

<210> 16

<211> 20

<212> DNA

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<223>  $\beta$ -tubulin forward oligonucleotide primer

<400> 16

cgcacaaacg tgtactacaa

20

<210> 17

<211> 20

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<223>  $\beta$ -tubulin reverse oligonucleotide primer

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<210> 18

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SEQ-16



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<223> Residues 68-76 of the TADG-15 protein

<400> 19

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<210> 20

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 126-134 of the TADG-15 protein

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<210> 21

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 644-652 of the TADG-15 protein

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Ser Leu Ile Ser Pro Asn Trp Leu Val

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<210> 22

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 379-387 of the TADG-15 protein

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Lys Val Ser Phe Lys Phe Phe Tyr Leu

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<210> 23

<211> 9

<212> PRT

<213> *Homo sapiens*

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<223> Residues 386-394 of the TADG-15 protein

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<210> 24

<211> 9

<212> PRT

<213> *Homo sapiens*

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<223> Residues 257-265 of the TADG-15 protein

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Ser Leu Thr Phe Arg Ser Phe Asp Leu

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<210> 25

<211> 9  
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Ile Leu Gln Lys Gly Glu Ile Arg Val

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<210> 26  
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<212> PRT  
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<223> Residues 841-849 of the TADG-15 protein  
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Arg Leu Pro Leu Phe Arg Asp Trp Ile

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<210> 27  
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<212> PRT  
<213> *Homo sapiens*  
<220>  
<223> Residues 64-72 of the TADG-15 protein  
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Gly Leu Leu Leu Val Leu Leu Gly Ile

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<210> 28  
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<223> Residues 57-65 of the TADG-15 protein

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Val Leu Ala Ala Val Leu Ile Gly Leu

5

<210> 29

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 67-75 of the TADG-15 protein

<400> 29

Leu Val Leu Leu Gly Ile Gly Phe Leu

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<210> 30

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 379-387 of the TADG-15 protein

<400> 30

Lys Val Ser Phe Lys Phe Phe Tyr Leu

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<210> 31

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 126-134 of the TADG-15 protein

<400> 31

Leu Leu Tyr Ser Gly Val Pro Phe Leu

5

<210> 32

<211> 9  
<212> PRT  
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<220>  
<223> Residues 88-96 of the TADG-15 protein  
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Lys Val Phe Asn Gly Tyr Met Arg Ile

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<210> 33  
<211> 9  
<212> PRT  
<213> *Homo sapiens*  
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<223> Residues 670-678 of the TADG-15 protein  
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Thr Gln Trp Thr Ala Phe Leu Gly Leu

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<210> 34  
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<213> *Homo sapiens*  
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<223> Residues 119-127 of the TADG-15 protein  
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Lys Val Lys Asp Ala Leu Lys Leu Leu

5

<210> 35  
<211> 9  
<212> PRT  
<213> *Homo sapiens*  
<220>  
<223> Residues 60-68 of the TADG-15 protein

<400> 35

Ala Val Leu Ile Gly Leu Leu Leu Val

5

<210> 36

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 62-70 of the TADG-15 protein

<400> 36

Leu Ile Gly Leu Leu Leu Val Leu Leu

5

<210> 37

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 57-65 of the TADG-15 protein

<400> 37

Val Leu Ala Ala Val Leu Ile Gly Leu

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<210> 38

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 61-69 of the TADG-15 protein

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Val Leu Ile Gly Leu Leu Leu Val Leu

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<210> 39

<211> 9  
<212> PRT  
<213> *Homo sapiens*  
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Phe Ser Glu Gly Ser Val Ile Ala Tyr  
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<210> 40  
<211> 9  
<212> PRT  
<213> *Homo sapiens*  
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<223> Residues 658-666 of the TADG-15 protein  
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Tyr Ile Asp Asp Arg Gly Phe Arg Tyr  
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<210> 41  
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Ser Ser Asp Pro Cys Pro Gly Gln Phe  
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<210> 42  
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<400> 42

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<210> 43

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 387-395 of the TADG-15 protein

<400> 43

Leu Leu Glu Pro Gly Val Pro Ala Gly

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<210> 44

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 553-561 of the TADG-15 protein

<400> 44

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<210> 45

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 97-105 of the TADG-15 protein

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Thr Asn Glu Asn Phe Val Asp Ala Tyr

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<210> 46

<211> 9



<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 110-118 of the TADG-15 protein

<400> 46

Ser Thr Glu Phe Val Ser Leu Ala Ser

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<210> 47

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 811-819 of the TADG-15 protein

<400> 47

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<210> 48

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 666-674 of the TADG-15 protein

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<210> 49

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 709-717 of the TADG-15 protein

<400> 49

Asp Tyr Asp Ile Ala Leu Leu Glu Leu

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<210> 50

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 408-416 of the TADG-15 protein

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Lys Tyr Cys Gly Glu Arg Ser Gln Phe

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<213> *Homo sapiens*

<220>

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Gln Tyr Gly Gly Thr Gly Ala Leu Ile

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<210> 52

<211> 9

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<223> Residues 153-161 of the TADG-15 protein

<400> 52

Ala Tyr Tyr Trp Ser Glu Phe Ser Ile

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Glu Tyr Ser Ser Met Val Arg Pro Ile

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Gly Phe Glu Ala Thr Phe Phe Gln Leu

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Thr Phe His Ser Ser Gln Asn Val Leu

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Thr Phe Asp Tyr Asp Ile Ala Leu Leu

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<210> 57

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<213> *Homo sapiens*

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Lys Tyr Asn Ser Arg His Glu Lys Val

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<210> 58

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<400> 58

Arg Tyr Ser Asp Pro Thr Gln Trp Thr

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<210> 59

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Ala Pro Gly Val Gln Glu Arg Arg Leu

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Gly Pro Lys Asp Phe Gly Ala Gly Leu

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<210> 61

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<213> *Homo sapiens*

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<223> Residues 668-676 of the TADG-15 protein

<400> 61

Asp Pro Thr Gln Trp Thr Ala Phe Leu

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<210> 62

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 461-469 of the TADG-15 protein

<400> 62

Thr Gly Arg Cys Ile Arg Lys Glu Leu

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<210> 63

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<223> Residues 59-67 of the TADG-15 protein

<400> 63

Ala Ala Val Leu Ile Gly Leu Leu Leu

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<210> 64

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<223> Residues 379-387 of the TADG-15 protein

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Lys Val Ser Phe Lys Phe Phe Tyr Leu

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<210> 65

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<213> *Homo sapiens*

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<223> Residues 119-127 of the TADG-15 protein

<400> 65

Lys Val Lys Asp Ala Leu Lys Leu Leu

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<210> 66

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<223> Residues 780-788 of the TADG-15 protein

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Leu Pro Gln Gln Ile Thr Pro Arg Met

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<223> Residues 67-75 of the TADG-15 protein  
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Leu Val Leu Leu Gly Ile Gly Phe Leu

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<210> 68  
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Ser Pro Met Glu Pro His Ala Leu Val

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<210> 69  
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<400> 69  
Gly Pro Lys Asp Phe Gly Ala Gly Leu

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<210> 70  
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Ser Leu Thr Phe Arg Ser Phe Asp Leu

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<210> 71

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 180-188 of the TADG-15 protein

<400> 71

Met Leu Pro Pro Arg Ala Arg Ser Leu

5

<210> 72

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 217-225 of the TADG-15 protein

<400> 72

Gly Leu His Ala Arg Gly Val Glu Leu

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<210> 73

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<213> *Homo sapiens*

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<223> Residues 173-181 of the TADG-15 protein

<400> 73

Met Ala Glu Glu Arg Val Val Met Leu

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<210> 74

<211> 9



<212> PRT  
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<223> Residues 267-275 of the TADG-15 protein  
<400> 74  
Ser Cys Asp Glu Arg Gly Ser Asp Leu

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<210> 75  
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<213> *Homo sapiens*  
<220>  
<223> Residues 567-575 of the TADG-15 protein  
<400> 75  
Cys Thr Lys His Thr Tyr Arg Cys Leu

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AI  
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me  
B1  
cut  
  
<210> 76  
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<213> *Homo sapiens*  
<220>  
<223> Residues 724-732 of the TADG-15 protein  
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Ser Ser Met Val Arg Pro Ile Cys Leu

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<400> 77

Tyr Cys Gly Glu Arg Ser Gln Phe Val

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<210> 78

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 495-503 of the TADG-15 protein

<400> 78

Thr Cys Lys Asn Lys Phe Cys Lys Pro

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<210> 79

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<212> PRT

<213> *Homo sapiens*

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<223> Residues 427-435 of the TADG-15 protein

<400> 79

Val Arg Phe His Ser Asp Gln Ser Tyr

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<210> 80

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<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 695-703 of the TADG-15 protein

<400> 80

Lys Arg Ile Ile Ser His Pro Phe Phe

5

<210> 81

<211> 9

<212> PRT  
<213> *Homo sapiens*  
<220>  
<223> Residues 664-672 of the TADG-15 protein  
<400> 81  
Phe Arg Tyr Ser Asp Pro Thr Gln Trp  
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<210> 82  
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<213> *Homo sapiens*  
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<223> Residues 220-228 of the TADG-15 protein  
<400> 82  
Ala Arg Gly Val Glu Leu Met Arg Phe  
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<210> 83  
<211> 9  
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<213> *Homo sapiens*  
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<223> Residues 492-500 of the TADG-15 protein  
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His Gln Phe Thr Cys Lys Asn Lys Phe  
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<210> 84  
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<223> Residues 53-61 of the TADG-15 protein  
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Gly Arg Trp Val Val Leu Ala Ala Val

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<210> 85

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 248-256 of the TADG-15 protein

<400> 85

Leu Arg Gly Asp Ala Asp Ser Val Leu

5

<210> 86

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 572-580 of the TADG-15 protein

<400> 86

Tyr Arg Cys Leu Asn Gly Leu Cys Leu

5

<210> 87

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 692-700 of the TADG-15 protein

<400> 87

Arg Arg Leu Lys Arg Ile Ile Ser His

5

<210> 88

<211> 9

<212> PRT  
<213> *Homo sapiens*  
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<223> Residues 24-32 of the TADG-15 protein  
<400> 88  
Ser Arg His Glu Lys Val Asn Gly Leu

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<210> 89  
<211> 9  
<212> PRT  
<213> *Homo sapiens*  
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<223> Residues 147-155 of the TADG-15 protein  
<400> 89  
Ser Glu Gly Ser Val Ile Ala Tyr Tyr

5

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<210> 90  
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<213> *Homo sapiens*  
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<400> 90  
Leu Glu Leu Glu Lys Pro Ala Glu Tyr

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<210> 91  
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<223> Residues 105-113 of the TADG-15 protein  
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Tyr Glu Asn Ser Asn Ser Thr Glu Phe

5

<210> 92

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 14-22 of the TADG-15 protein

<400> 92

Lys Asp Phe Gly Ala Gly Leu Lys Tyr

5

<210> 93

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 129-137 of the TADG-15 protein

<400> 93

Ser Gly Val Pro Phe Leu Gly Pro Tyr

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<210> 94

<211> 9

<212> PRT

<213> *Homo sapiens*

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<223> Residues 436-444 of the TADG-15 protein

<400> 94

Thr Asp Thr Gly Phe Leu Ala Glu Tyr

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<210> 95

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 766-774 of the TADG-15 protein

<400> 95

Gly Glu Ile Arg Val Ile Asn Gln Thr

5

<210> 96

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 402-410 of the TADG-15 protein

<400> 96

Val Glu Ile Asn Gly Glu Lys Tyr Cys

5

<210> 97

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 482-490 of the TADG-15 protein

<400> 97

Asp Glu Leu Asn Cys Ser Cys Asp Ala

5

<210> 98

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 82-90 of the TADG-15 protein

<400> 98

Arg Asp Val Arg Val Gln Lys Val Phe

5

AI  
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MB  
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